EXERCISE 07

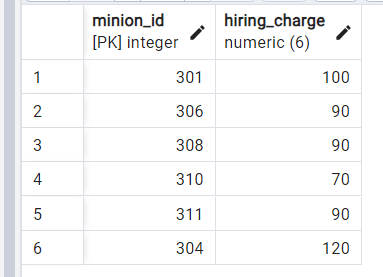
1)[Subquery in Where clause] Identify all minions along with their hiring\_charges involved in a mission with estimate greater than 2000.

select minion\_id, hiring\_charge from minion

where minIon\_id in

(select minion\_id from involved\_in where mission\_id in

(select mission\_id from mission where estimate > 2000));



2)[Subquery in Where clause] Find all minions paid in Indian currency (INR).

SELECT \* FROM minion

WHERE minion\_id IN (

SELECT minion\_id

FROM involved\_in

WHERE mission\_id IN (

SELECT mission\_id

FROM payment

WHERE currency\_id IN (

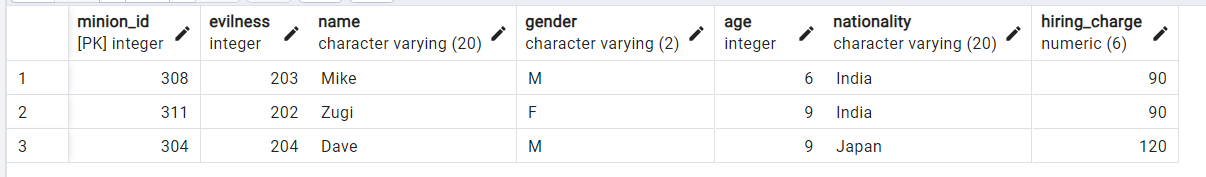
SELECT currency\_id

FROM currency

WHERE name = 'INR')

)

);



3)[Subquery in Having clause] Find the name and the hiring\_charge of the minions with charges more than the average hiring\_charge of the minions.

SELECT name, hiring\_charge

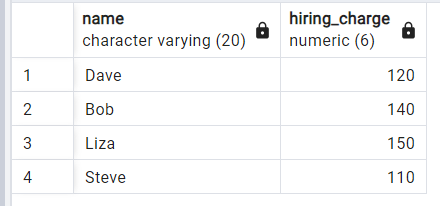
FROM minion

GROUP BY minion\_id

HAVING hiring\_charge > (

SELECT AVG(hiring\_charge)

FROM minion)



4)[Subquery in Having clause] Identify the trainers for mission 503.

**Hint**: level n trainer can teach level n-1. Vice versa is not true

select trainer from training

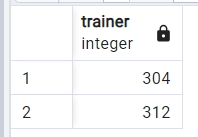
group by training\_id

having level >= (

select pre\_req

FROM mission

WHERE mission\_id = 503);



SELECT name FROM minion

WHERE minion\_id IN (

select trainer from training

group by training\_id

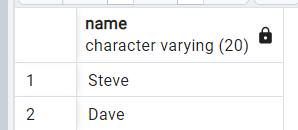
having level >= (

select pre\_req

FROM mission

WHERE mission\_id = 503)

);



5)[Subquery in From clause] Find the Indian minions trained by Steve or Mike.

select distinct m.name

from minion m, (

select distinct minion\_id

from takes\_training

where training\_id in (

select training\_id

from training

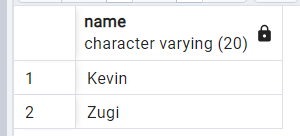
where trainer in (312,308))

)

as indian\_minions

where m.nationality='India' and

m.minion\_id=indian\_minions.minion\_id;



6)[Subquery in From clause] Which master from the cartoon genre have completed mission outside India.

select name,mtype from master,

(select distinct master\_id

from involved\_in

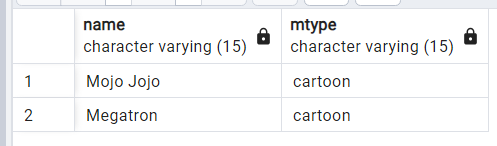
where mission\_id in(

select distinct mission\_id

from mission

where country not in('india'))) as cartoon\_master

where mtype='cartoon' and master.master\_id = cartoon\_master.master\_id;



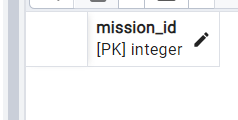
7)[Correlated Subquery] Find the missions with estimate higher than the average estimate of all missions.

select mission\_id from mission as mi

where estimate >(

select avg(estimate) from mission m

where mi.mission\_id = m.mission\_id);



8)[Correlated Subquery] Compare the duration of all training and find all occurrences except the training with least duration.

SELECT \* FROM training t1

WHERE t1.to\_date - t1.from\_date = (

SELECT MIN(t2.to\_date - t2.from\_date)

FROM training t2

WHERE t1.level = t2.level

);

